

## Recombinant Human Adenosine Kinase, His-tagged

**Cat. No.** ADK-2481H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Adenosine kinase, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 40.5 kDa (362aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Adenosine kinase, also known as ADK is an abundant enzyme in mammalian tissues that catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine kinase has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 50mM NaCl.
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay).
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SGLVPRGSH MRENILFGMG NPLLDISAVV DKDFLDKYSL KPNDQILAED KHKELFDELV KFKVEYHAG GSTQNSIKVA QWMIQQPHKA

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ATFFGCIGID KFGEILKRKA AEAHVDAHYY EQNEQPTGTC AACITGDNRS  
 LIANLAAANC YKKEKHLdle KNWMLVEKAR VCYIAGFFLT VSPESVLKVA  
 HHAENNRIF TLNLSAPFIS QFYKESLMKV MPYVDILFGN ETEAATFARE  
 QGFETKDIKE IAKKTQALPK MNSKRQRIVI FTQGRDDTIM ATESEVTAFa  
 VLDQDQKEII DTNGAGDAFV GGFLSQLVSD KPLTECIRAG HYAASIIIRR  
 TGCTFPEKPD FH.

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

ADK adenosine kinase [ [Homo sapiens](#) ]

**Synonyms**

adenosine kinase; AK; ADK; adenosine 5"-phosphotransferase; Adenosine 5"-phosphotransferase; EC 2.7.1.20

**Gene ID**

132

**mRNA Refseq**

[NM\\_001123](#)

**Protein Refseq**

[NP\\_001114](#)

**MIM**

102750

**UniProt ID**

[P55263](#)

**Chromosome Location**

10q22; 10q11-q24

**Pathway**

Metabolic pathways; Purine metabolism; Metabolism of nucleotides

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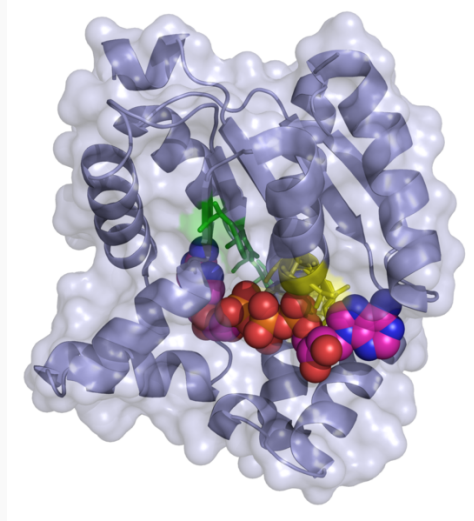
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**Function**

ATP binding; adenosine kinase activity; kinase activity; metal ion binding; nucleotide binding; transferase activity

**Adenylate kinase 1**



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